



**KERALA AGRICULTURAL UNIVERSITY**  
**B. Tech.(Food Technology) 2023 & previous admission**  
**V Semester Final Examination - January 2026**

Beas.3110

**ICT Applications in Food Industry (1+2)**

**Marks: 50**

**Time: 2 hours**

**I Fill in the blanks**

**(10x1=10)**

1. A ..... is a graphical representation of data in symbols whereas graphs portray the relationship between different data in less space.
2. ..... refers to the physical components of a system.
3. The ..... command will create a 3D plot of the data.

**State True or False**

4. Divergence of velocity of a moving fluid model physically means that time rate of change of the volume of a moving fluid element per unit volume.
5. A control volume based model gives differential equation.

**Match the following**

6.	1. Average	CFD
	2. FILE I/O	Protocol
	3. FTP	Read and write
	4. Fluid dynamics	Statistical

**Answer the following**

7. Name any two software for webpage design.
8. How do you select multiple channels in LabVIEW?
9. Write the concept of Fuzzy Logic in food industry.
10. What is the curve fitting toolbox function in MATLAB?

**II Write short notes on ANY FIVE of the following**

**(5x2=10)**

1. What is meant by Supervisory Control and Data Acquisition system?
2. Sketch out the functions of modem.
3. Why do we need MATLAB in solving engineering problems?
4. Comment on Linear Regression.
5. Identify the role of fluid dynamics in the food industry.
6. Define NI-DAQ.
7. Mention the commonly used file formats in LabVIEW Environment?

**III Answer ANY FIVE of the following**

**(5x4=20)**

1. List down the applications of spreadsheet.
2. How to develop a program with simulated devices?
3. Enumerate the operating environments and information systems for various types of food industries.
4. Give the overview of add-ins and solver with suitable examples.
5. Comment on MATLAB user defined functions.
6. Elaborate Decision making and file I/O with example.
7. Sketch out the block diagram of front panel in labVIEW.

**IV Write an essay on ANY ONE of the following**

**(1x10=10)**

1. Summarize the features of GAMBIT and FLUENT software in food industries.
2. Analyze the significance of web site development along with centralized server system for food industries.

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